

Euphoria[®]



MEDICAL OXYGEN PRODUCTION SYSTEMS



OXYGOLD MEDICAL OXYGEN PRODUCTION SYSTEMS

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OUR PRODUCT CATEGORIES:

- Sterilization and Disinfection Systems
- Operating Tables
- Oxygen Production Systems
- Water Purification Systems
- Hospital Equipment



PRODUCTION

- You can produce your own oxygen with OXYGOLD oxygen production systems.
- It eliminates the need for liquid oxygen cylinders and gas cylinders.
- Oxygold system, integrated air compressor, refrigerated dryer and

It separates oxygen from other gases with nano technology by using air with its filtration system.

- Separation is done with synthetic zeolite material that does not require change
 - The process is completely automatic
 - Delivery pressure between 0 bar (g) and 6 bar (g) according to customer needs
- is being adjusted.
- Oxygen production of 90% - 98% purity is achieved.
 - For medical and commercial facilities.

CONTROL

- Complies with 93/42/EEC Medical Device Directives
- Audible and visual alarms if medical oxygen drops below 90%. • Automatic closing system
- 7" LCD color touch screen control panel

STORAGE

- Integrated oxygen storage tanks
- System automatically stores pure oxygen so it is ready for use

SYSTEM INFORMATION

1. Compressor
2. Pneumatic Liquid waste (test controlled)
3. Air dryer (Automatic water and oil discharge unit)
4. Oxygen generator
5. Oxygen and air tanks

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ADVANTAGES

EASY USE

Easy assembling; Opportunity to produce your own oxygen with special design & modular solutions. The air compressor, together with the refrigerated dryer and filtration system, draws air from the external environment and separates it from other gases with nanotechnology. Separation is achieved through synthetic zeolite material that does not require modification;

CAPACITY Up to 95% ($\pm 3\%$) oxygen production

TRUSTWORTHY Fully automatic; Working at 4-6 Bar pressure

HEALTHY High quality medical filters used for production

ECONOMIC Eliminates the cost of tube-based oxygen supply.



USAGE AREAS



• HEALTH FACILITIES:

Hospitals, Intensive Care Units, Clinics, Ambulances, Oxygen Therapy Centers, Mobile Hospitals, Veterinary Hospitals

• BEAUTY CENTERS:

SPA and Beauty Centers, Ozone Treatment Centers

• INDUSTRIAL FACILITIES:

Glass, paint, textile, etc. factories.

• CLOSED AREAS:

Hotels, Gyms, Shopping Malls, Cinema Halls

FEATURES

- Fully automatic
 - 24/7 – 365 days operating feature
 - Compliant with 93/42/EEC Medical Device Directive
 - 90% - 98% Purity
 - 0.6 -150 m³/hour Oxygen Output
 - 220 V 50 Hz Oxygen Generator Power Supply – 380 V 50 Hz Compressor
 - Operating temperature between 0 and 50°C
 - 0.15 – 35 m³/min Air Input (7 bar)
 - High-quality materials that do not pose any security risk during transportation.
- pressure tubes
- Digital control panel and graphic display
 - Oxygen production capacity from 10 L/min to 2500 L/min
 - Return on Investment period 12-24 months
 - Automatic shutdown and safety when oxygen purity drops to 90%
- switch to mode



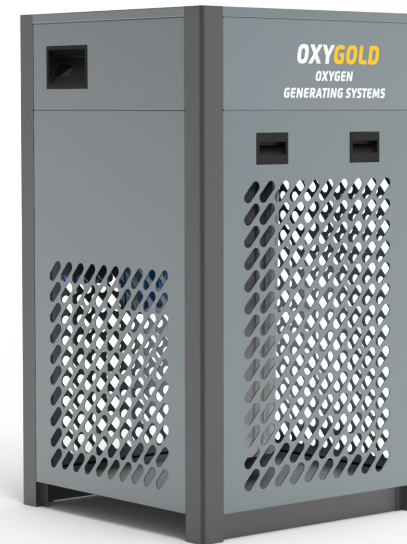
COMPRESSORS

- Highly efficient and energy saving screw block
- Efficient electric motors
- Belt – pulley drive
- Maximum power and strength with poly belt pulley system
- minimal maintenance
- Plc control unit
- Uninterrupted production with quality air
- High energy efficiency suction valve
- Two-stage air suction filter system
- Sound-insulated acoustic cabin
- Fully equipped security system.
- Air cooling system
- Working pressure 6-8 bar
- Low noise level



DRYERS

- Durable
- Welded with the latest technology suitable for steel pipes
- air perforated copper sheets
- Energy-saving
- Compact heat exchanger design
- Heat exchangers suitable for various high pressures



OXYGEN GENERATOR SYSTEM

- Date and time setting
- Total working time
- Manual or auto start Pin code for keys
- Digital display of oxygen flow meter (l/min)
- Oxygen purity digital and graphic display
- Digital time and graphic pressure of PSA running on the columns indicator
- Digital display of oxygen pressure
- Adjustable and programmable control panel software (PLC)
- Air control from the control unit setting time of valves
- Oxygen outlet pressure from the control panel control
- Water and dust proof, lockable control panel
- Zeolite tanks
- High quality zeolite



TANKS

- 2009/105 CEE / EN 286-1, ED-2000, EN 13445 PED 97/23 EEC and

Compliant with EN 12542 Regulations

- Maximum 10 bar working pressure
- Between 400 – 5000 Liters depending on models
- Customizable designs



OXYGEN PRODUCTION SYSTEMS MOUNTED ON THE CHASSIS

- Suitable for clinics, mobile hospitals, emergency services.
 - 24/7 operation
 - Ability to provide high purity oxygen up to 95% ($\pm 3\%$)
 - Automatic shutdown and safety when oxygen purity drops to 90%
- switch to mode
- Return on Investment period 12-24 months
 - Compact model for small spaces



CONTAINER TYPE OXYGEN PRODUCTION SYSTEMS

- Portable and easy to install
- 24/7 operation feature
- Ability to provide high purity oxygen up to 95% ($\pm 3\%$)
- Automatic shutdown and safety mode when oxygen purity drops to 90% pass
- Return on investment 12-24 months
- Adjustable designs for standard and / non-standard containers
- Our models can be offered in container models.



* This is an example design. Optional can be customized

Sample Medical Oxygen Production System placed outside the hospital



OXYGEN FILLING SYSTEM

Description: Technical Parameters

Working environment: Oxygen gas

Construction style: 100% OIL-FREE TYPE

Compress level: 4

Nominal inlet pressure: MPa(G) 0.2-0.4

Rated outlet pressure: MPa (G) 15.0

Gas inlet temperature: 35-40 degrees

Discharge temperature: ≤ 130 degree before cooling

Gas supply temperature: ≤ 55 degree

Compressor/min rotation speed: 190 - 300

Cooling type: Air - Cooling / Water - Cooling

Bent axle Connecting rod: Sealing grease lubrication

Air tube: Oil-free lubrication

Engine power (Kw): 5 - 20

Transmission way: Belt driven

Installation type: Basst installation base

Automatic control: Automatic when exhaust pressure is exceeded

stands as

Dimensions: Width×height mm: Varies depending on the model

Size of gas inlet (mm): 15 - 25

Size of gas outlet (mm): M16x1.5

mm inside and outside the water interface -

Water consumption kg/hour -

Weight (Kg): Varies depending on model

Power supply: 380 - 415 V 50 Hz - 3 phase



Tubes of various sizes can be filled at up to 300 bar pressure and the systems operate automatically.

When the gas pressure in the cylinder reaches the desired level, the compressor stops and you can monitor whether the cylinder is full from the control panel. The system is suitable for 24-hour uninterrupted operation.

OXYGEN CAPACITY TABLE FOR SELECTED MODELS

Model*	AKIŞ m³/saat - OKSİJEN SAFLIĞI									HAVA Nm³/ dak 7 bar	OKSİJEN TANK LİTRE	KURULUM GÜCÜ (kW/m³)
	0,90%			0,93%			0,95%					
	Nm³/ saat	L/dak	Kilo/ saat	Nm³/ saat	L/dak	Kilo/ saat	Nm³/ saat	L/dak	kg/ saat			
OXY-GOLD-4	2.4	40	3.43	2.08	34.7	2.97	1.93	32.2	2.76	0.55	400	1.99
OXY-GOLD-5	3.00	50	4.25	2.95	49	4.2	2.75	46	3.9	0.75	400	1.55
OXY-GOLD-11	6.30	105	9	6	109	8.58	5.72	95	8.17	1.65	1000	1.59
OXY-GOLD-15	9.39	156	13.42	9	150	12.87	8.67	144	12.39	2.5	1000	1.41
OXY-GOLD-18	11.77	195	15.4	10.11	169	14.45	9.36	156	13.4	2.86	1000	1.31
OXY-GOLD-30	18.47	308	26.41	17.35	289	24.81	16.06	268	22.96	4.85	1500	1.33
OXY-GOLD-37	24.07	400	34.42	22.6	377	32.31	20.93	349	29.93	5.02	2000	1.21
OXY-GOLD-45	28.50	475	40.75	26.77	446	38.28	24.78	413	35.43	6.00	2000	1.26
OXY-GOLD-55	41.17	686	58.87	38.66	644	55.28	35.8	597	51.2	9	3000	1.31
OXY-GOLD-75	50.67	845	72.45	47.59	793	68.05	44.06	734	63	11.2	4000	1.35
OXY-GOLD-110	69.99	1167	100	65.73	1096	94	60.84	1014	87.03	15.5	5000	1.48

* DIFFERENT MODELS CAN BE CUSTOMIZED UPON REQUEST.

** PLEASE CONTACT US FOR TECHNICAL SPECIFICATIONS.

The best model option is offered based on the following information: TOTAL NUMBER OF BEDS IN THE HOSPITAL
NUMBER OF OPERATING ROOMS
NUMBER OF INTENSIVE CARE UNIT BEDS
NUMBER OF INCUVATORS
NUMBER OF VENTILATORS
AMOUNT OF OXYGEN CAPSULE (daily or monthly)